KWD Bleach 4%

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Bleach Gel
Product Code	6890 3 320 (20ltr), 6890 3 305 (5ltr)
Product Use	Bath and tile cleaner.
Company Name	Forch Australia Pty Ltd
Address	2 Forward Street GNANGARA WA 6077
Emergency Telephone	13 11 26
Telephone	(08) 9303 9113
Fax	(08) 9303 9114
Web	www.forch.com.au

2. HAZARDS IDENTIFICATION

Hazard Classification:	**Classified as hazardous according to ASCC criteria**
Hazard Category:	Corrosive
Risk Phrases:	R34 – Causes burns
Safety Phrases	S1/2 – Keep locked up and out of the reach of children S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37/39 - Wear suitable gloves and eye/face protection. S45 - In case of accident or if you feel unwell, seek medical advice immediately.
Dangerous Goods	**Classified as a Dangerous Good according to the criteria of the ADG Code**

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Proportion
Sodium hydroxide	7681-52-9	1 - 5%
Sodium hypochlorite	1310-73-2	<2% available chlorine
Water and other non-hazardous ingredients	-	to 100%

4. FIRST AID MEASURES

Inhalation	Remove victim from exposure. Seek medical attention if Ill-effects persist.
Ingestion	Do not induce vomiting. Give glass of water and seek immediate medical attention.
Skin	Remove contaminated clothing and flush affected area with running water. Wash contaminated clothing before re-use.
Eye	If in eyes, hold eyelids apart and irrigate with clean water for at least 15 minutes. Seek urgent medical assistance.
First Aid Facilities	Eye wash station.
Advice to Doctor	Treat symptomatically as for strong alkali. May cause corneal burn. Mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

Extinguishing Media	Not flammable. Use extinguishing media appropriate to the source of the fire.
Hazards from Combustion Products	In the event of a major fire, this product may emit toxic fumes including carbon monoxide and carbon dioxide.
Precautions for Fire Fighters	Cool containers with water to prevent containers from rupturing.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Personnel involved in the clean up should wear appropriate protective clothing as specified in Section 8. Clean up spills immediately to prevent further accidents. Evacuate all unnecessary personnel. Increase ventilation. Stop leak if safe to do so.

	Do not let product reach drains or waterways.
Spills & Disposals	Contain and recover liquid where possible. Use material such as earth to contain spill and pack residue into appropriate containers for disposal at approved site. Wash affected area with water.
7. HANDLING AND STORAGE	
Storage	Store in original container in a cool, well ventilated area out of direct sunlight. Keep containers closed when not in use. Do not store near strong oxidising agents or acids.
Handling	Wear protective clothing as specified in Section 8. Prevent the build up of mists or aerosols in the work atmosphere. Avoid inhalation of aerosol or mist. Wash hands and other exposed areas with soap and water immediately after handling and before eating, drinking, smoking or using the toilet.
8. EXPOSURE CONTROL/PERSONAL PROTECTION	
Exposure Standards	No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). The exposure standards for ingredients are: TWA for sodium hydroxide = 2 mg/m^3 TWA for chlorine gas = 3 mg/m3 TWA = Time Weighted Average
Biological Limits	None allocated.
Engineering controls	Use with good general ventilation. If mists or aerosols are generated, a system of local and/or general exhaust is recommended to keep employee exposure as low as possible. Local exhaust ventilation is preferable because it can control emissions at source preventing dispersion into the general work area.
Personal Protective Equipment	**Eye Protection:** Face shield and/or chemical goggles (AS 1336/1337). **Glove Type:** Impervious PVC, rubber or nitrile gloves (AS 2161). **Clothing:** PVC, nitrile or rubber splash apron and rubber boots.
9. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	Clear viscous liquid
Odour	Faint chlorine
pH (neat)	>11.5
Vapour Pressure	Not determined
Vapour Density	Not determined
Boiling Point/Range	Approximately 100ºC
Freezing/Melting point	<0ºC
Solubility in Water	Miscible in all proportions
Specific Gravity	Approximately 1.1
Flash Point	Not applicable
Flammable Limits	Not flammable
10. STABILITY AND REACTIVITY	
Chemical Stability	May degrade slowly especially if left in direct sunlight releasing toxic chlorine gas.
Conditions to Avoid	Heat.
Materials to Avoid	Incompatible with acids and aluminium metal.
Decomposition	May emit toxic or irritating fumes if heated above approximately 70ºC.
Hazardous Reactions	In contact with aluminium, product will release highly flammable hydrogen gas. In contact with acids, product will release highly toxic chlorine gas.
11. TOXICOLOGICAL INFORMATION	
Health Hazard Summary	Product is alkaline and corrosive. Severe hazard to skin and eyes.
Inhalation	Inhalation of mist or aerosol will cause pulmonary irritation with possible harmful corrosive effects including pulmonary oedema, pneumonitis, emphysema and lesions of nasal septum.
Ingestion	Low systemic toxicity. Highly corrosive. May cause burning of the mouth and oesophagus, nausea, vomiting, abdominal pain and oedema (swelling of the larynx)

	with subsequent suffocation, coma and cardiovascular collapse in extreme cases.
Skin	Highly corrosive to skin. Irritant dermatitis may result from working with this material. If left unattended, skin contact produces burns, deep ulceration and gelatinous necrotic areas at the site of contact. Skin contact can result in little or no pain thus contamination of gloves or boots can be very damaging.
Eye	Severe eye irritant. Highly corrosive to eyes. May cause conjunctivitis, corneal burns and ulceration. Permanent eye damage, including loss of sight, may occur.
Toxicity Data	Sodium hydroxide: Acute oral toxicity: LD50 (Mouse): 40 mg/kg Oral lowest lethal dose (rabbit): 125 mg/kg Acute dermal toxicity (rabbit): 500 mg/24 hours (severe)

12. ECOLOGICAL INFORMATION

Ecotoxicity	This product is considered toxic to aquatic organisms. Do not contaminate waterways with the product or used containers.
Persistence and Degradability	The surfactants used in this product are readily biodegradable (AS 4351). None of the components of this product will bioaccumulate.
Mobility	No data available for this product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal	Dispose of as hazardous waste. Refer to waste management authority. Containers should be thoroughly rinsed and recycled.
Legislation	Dispose of in accordance with applicable local and national regulations. Contact a specialist waste company or local regulator for advice.

14. TRANSPORT INFORMATION

Classified as a Dangerous Good according to the criteria of the ADG Code	
U.N. Number	1760
Proper Shipping Name	Corrosive Liquid
Class and Subsidiary Risk(s)	8
Packing Group	III
Special Precautions	Corrosive
Hazchem Code	2R

15. REGULATORY INFORMATION

Poisons Schedule	Schedule 5
AICS	All ingredients are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Contact Point	Anthony Benich
Title	Technical Manager
Telephone	08 9303 2882
After Hours	0432 620 423

The information contained in this Material Safety Data Sheet is believed to be accurate and reliable; however, Forch Distributors shall not be liable for any inaccuracy in the information or for any loss, injury or damage whatsoever arising from the use of this product as conditions and methods of use are beyond our control. Users should read this Material Safety Data Sheet and evaluate the information in the context of how the user intends to handle and use the product in the workplace including the use of this product with other products.

End of Report